



Attorney Docket: 2055GG/48747TR  
PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: GUY A ROULEAU ET AL.

Serial No.: 09/508,821 Group Art Unit: 1634

Filed: MAY 26, 2000 Examiner: J. GOLDBERG

**Title: POLYMORPHIC CAG REPEAT-CONTAINING GENE AND USES THEREOF**

# **INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR §§ 1.97 and 1.98**

Commissioner for Patents  
Washington, D.C. 20231

Sir:

In accordance with the duty of disclosure under 37 CFR §1.56, Applicant hereby notifies the U.S. Patent and Trademark Office of the documents which are listed on the attached Form PTO-1449 and which the Examiner may deem relevant to patentability of the claims of the above-identified application.

Additional copies of the references cited in the attached International Search Report are not submitted herewith, because the U.S. Patent and Trademark Office has already acknowledged receipt of these references.

The present Information Disclosure Statement is being filed without a Certification under 37 CFR §1.97(e) after the later of three months from the application's filing date and the mailing date of the first Office Action on the merits, but before a Final Office Action or Notice of Allowance, and therefore a check for the fee of \$180.00 under 37 CFR §1.17(p) is attached. Please charge any necessary fee or credit any overpayment in connection with this Information Disclosure Statement to Deposit Account No. 05-1323 (Attorney Docket No. 2055MC/48747TR).

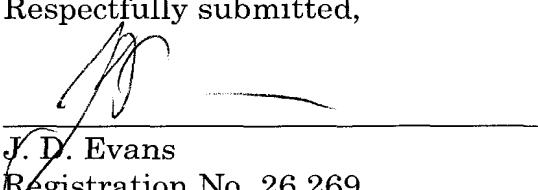
The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present

application. Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

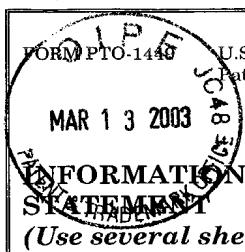
The Examiner is respectfully requested to confirm receipt and consideration of the documents by initialing and returning a copy of the accompanying form PTO-1449.

Respectfully submitted,

March 13, 2003

  
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 <p>U.S. Department of Commerce Patent &amp; Trademark Office</p>	Attorney Docket No. 2055GG/48747TR	Serial No. 09/508,821
	Applicant: Guy A. ROULEAU, et al.	
	Filing Date May 26, 2000	Group

U.S. PATENT DOCUMENTS								
Examiner Initial		Document Number	Date	Name	Class	Sub-Class	Filing Date (if appropriate)	
	AA							
	AB							
FOREIGN PATENT DOCUMENTS								
Examiner Initial		Document Number	Date	Name	Class	Sub-Class	TRANSLATION	
							Yes	No
	AC	95/01437	01/1995	WO				
	AD	97/18825	05/1997	WO				
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)								
	AE	Y. IMAI, et al. "Cloning of a retinoic acid-induced gene, GT1 in the embryonal carcinoma cell line P19: neuron-specific expression in the mouse brain" Molecular Brain Research, see whole document						
	AF	Y. ROBITAILLE, et al., "The neuropathology of CAG repeat diseases: review and update of genetic and molecular features" Brain Pathology, Vol. 7, No. 3, July 1997, pages 901-926						
	AG	P. MACIEL, et al., "Correlation between CAG repeat length and clinical features in Machado-Joseph Disease" American Journal of Human Genetics, Vol. 57, No. 1, July 1995, pages 54-61						
	AH	R. JOOBER, et al., "Apolipoprotein E genotype in Schizophrenia" American Journal of Medical Genetics (Neuropsychiatric Genetics), Vol. 67, No. 2, April 9, 1996, page 235						
	AI	R. A. PHILBERT, et al., "The characterization and sequence analysis of thirty CTG-repeat containing genomic cosmid clones" European Journal of Human Genetics, Vol. 6, No. 1, January 1998, pages 89-94						
	AJ	G. TURECKI, et al., "Schizophrenia and chromosome 6p" American Journal of Medical Genetics" Vol. 74, No. 2, 1997, pages 195-198						
	AK	S. F. ALTSCHUL, et al., Journal of Molecular Biology, Vol. 215, 1990, pages 403-410						
	AL	J. I. NURNBERGER, et al., Archives of General Psychiatry, Vol. 51, 1994, pages 849-859						
	AM	M. G. WOERNER, et al., Psychopharmacology Bulletin, Vol. 24, 1988, pages 112-117						
EXAMINER				DATE CONSIDERED				
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.								

## INTERNATIONAL SEARCH REPORT

International Application No PCT/CA 98/00884
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<b>A. CLASSIFICATION OF SUBJECT MATTER</b>			
IPC 6	C12N15/00	C12Q1/68	C07K14/47
			A01K67/027

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 6 C07K C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	IMAI, Y. ET AL.: "Cloning of a retinoic acid-induced gene, GT1, in the embryonal carcinoma cell line P19: neuron-specific expression in the mouse brain" MOLECULAR BRAIN RESEARCH, XP002093328 see the whole document ---	1
A	ROBITAILLE, Y. ET AL.: "The neuropathology of CAG repeat diseases: review and update of genetic and molecular features" BRAIN PATHOLOGY, vol. 7, no. 3, July 1997, pages 901-926, XP002093329 see the whole document ---	2

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

## \* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
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12 February 1999

25/02/1999

Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl. Fax: (+31-70) 340-3016	Authorized officer
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Chambonnet, F

## INTERNATIONAL SEARCH REPORT

Inte	onal Application No
PCT/CA 98/00884	

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 95 01437 A (UNIV MINNESOTA) 12 January 1995 see the whole document ---	2-10
A	WO 97 18825 A (UNIV BRITISH COLUMBIA ;KALCHMAN MICHAEL (CA); HAYDEN MICHAEL R (CA) 29 May 1997 see the whole document ---	2-10
A	MACIEL, P. ET AL.: "Correlation between CAG repeat length and clinical features in Machado-Joseph Disease" AMERICAN JOURNAL OF HUMAN GENETICS, vol. 57, no. 1, July 1995, pages 54-61, XP002093330 ---	1,2,4,10
A	JOOBER, R. ET AL.: "Apolipoprotein E genotype in Schizophrenia" AMERICAN JOURNAL OF MEDICAL GENETICS (NEUROPSYCHIATRIC GENETICS), vol. 67, no. 2, 9 April 1996, page 235 XP002093331 see the whole document ---	2
P,X	PHILIBERT, R.A. ET AL.: "The characterization and sequence analysis of thirty CTG-repeat containing genomic cosmid clones" EUROPEAN JOURNAL OF HUMAN GENETICS, vol. 6, no. 1, January 1998, pages 89-94, XP002093332 see the whole document ---	1
T	TURECKI, G. ET AL.: "Schizophrenia and chromosome 6p" AMERICAN JOURNAL OF MEDICAL GENETICS, vol. 74, no. 2, 1997, pages 195-198, XP002093333 see the whole document -----	2

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International Application No  
PCT/CA 98/00884

Patent document cited in search report	Publication date	Patent family member(s)			Publication date
WO 9501437	A 12-01-1995	US	5834183 A		10-11-1998
		CA	2166117 A		12-01-1995
		EP	0707647 A		24-04-1996
		JP	9501049 T		04-02-1998
		US	5741645 A		21-04-1998
WO 9718825	A 29-05-1997	CA	2238075 A		29-05-1997
		EP	0873132 A		28-10-1998